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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,503	08/24/2006	Norikazu Sugaya	2006_1372A	1096
513 WENDEROTT	7590 12/07/201 H, LIND & PONACK,	EXAM	EXAMINER	
1030 15th Stre	et, N.W.,	FLETCHER III, WILLIAM P		
Suite 400 East Washington T	OC 20005-1503	ART UNIT	PAPER NUMBER	
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			NOTIFICATION DATE	DELIVERY MODE
			12/07/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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ddalecki@wenderoth.com eoa@wenderoth.com

Office Action Summary

Application No.	Applicant(s)	
10/590,503	SUGAYA ET AL.	
Examiner	Art Unit	
William P. Fletcher III	1715	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for I	Reply
WHICHI - Extensio after SIX - If NO pe - Failure to Any repli	REVENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, EVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. TO of time may be available under the provisions of 37 CFR 1.35(g), in no event, however, may a reply be timely filed (5) MONTHS from the making date of this communication. (6) MONTHS from the making date of this communication or property of the making date of this communication or property of the date of the making date of this communication or play within the set or standard period for empty within the safe. Standardos to become ARMONDEC (58 LSC, § 133), yrecisived by the Office later than three months after the making date of this communication, even if timely filed, may reduce any attention them adjustment. See 37 CFR 1.74(b).
Status	
2a)⊠ TI 3)⊡ Si	esponsive to communication(s) filed on <u>03 June 2010</u> . is action is FINAL. 2b
Disposition	of Claims
4)⊠ Cl 4a 5)□ Cl 6)⊠ Cl 7)□ Cl	aim(s) 12-20 is/are pending in the application.) Of the above claim(s) is/are withdrawn from consideration. aim(s) is/are allowed. aim(s) 12-20 is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction and/or election requirement.
Application	Papers
10)⊠ Th Ap Re	e specification is objected to by the Examiner. e drawing(s) filed on 24 <u>August 2006</u> [s/are: a)⊠ accepted or b)□ objected to by the Examiner. splicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). splacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). e oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority und	der 35 U.S.C. § 119
a)⊠ 1. 2. 3.	knowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All b) □ Some * c) □ None of: □ Certified copies of the priority documents have been received. □ Certified copies of the priority documents have been received in Application No □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
Attachment(s)	
 Notice o 	f References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of References Cited (PTO-892)	Interview Summary (PTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
3) N Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Patent Application
Paper No(s)/Mail Date 6/3/10.	6) Other: .

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DETAILED ACTION

Response to Amendment

Claims 12-20 are now pending.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 3 June 2010 was filed after the mailing date of the non-final Office action on 4 March 2010. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the Primary Examiner.

Drawings

 The drawings were received on 24 August 2006. These drawings are acceptable for examination.

Terminal Disclaimer

5. The terminal disclaimer filed on 3 June 2010 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US 7,368,019 B2 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Response to Arguments

6. The objections to the specification, set forth in the prior Office action, are withdrawn in view of the amendment

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 The rejections under 35 USC 112, 2nd paragraph, are moot in view of the cancellation of the rejected claims.

- The double-patenting rejections set forth in the prior Office action are withdrawn in view of the terminal disclaimer.
- 9. New grounds of rejection concerning new claims 12-20 are set forth herein below. It appears that Applicant argues that the composition of JP '267 suffers from two deficiencies: (A) that the applied film is uneven, has specks, and is discolored; and (B) that, because the film is water soluble, it is not safe for use with drinking water.
 - A. With respect to the uniformity and appearance of the film, Applicant's characterization is merely speculation and unsupported by any evidence in the record. There is no indication in the prior art that a detrimental reaction between the benzotriazole and the organic acid actually takes place and that said reaction results in an uneven, speckled, and/or discolored film. Even if, arguendo, this were the nature of the film formed in JP '267, it is clear from the reference that the film still functions to prevent elution [Example-1] and the claims do not require an even, un-speckled, and non-discolored film. Consequently, this argument is not persuasive.
 - B. With respect to the film's not being safe for drinking water, this argument is difficult in view of the reference which expressly states prevention of elution "into tap water" [Industrial Application]. It the Primary Examiner's position that the common and accepted definition of "tap water" necessarily implies potability. Consequently, this argument is not persuasive.

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Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed

or described as set forth in section 102 of this title, if the differences between the

subject matter sought to be patented and the prior art are such that the subject

matter as a whole would have been obvious at the time the invention was made

to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was

made.

11. This application currently names joint inventors. In considering patentability of

the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

12. Claims 12-16 and 20 are rejected under 35 U.S.C. 103(a) as obvious over JP

2002-180267 A in view of Applicant's admitted prior art and WO 96/39549 A1.

A. Claims 12, 13, and 20

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i. This reference teaches a process for the treatment of a Ni-plated, Cu alloy waterworks appliance, which anticipates the recited water-contact instrument as exemplified at [0002] of the instant Specification (see above). The applicant is immersed in a solution of benzotriazole (BTA)

and organic acid, thereby forming a protective film [0007, 0008, and 0025].

ii. While this reference does not expressly teach that Ni elution is suppressed, since the reference teaches all of the *claimed* process steps and materials, it is the Examiner's position that the film formed suppresses

elution of Ni, absent evidence to the contrary.

iii. This reference does not expressly state that the Ni film wraps around and adheres to at least a wetted surface of the wetted instrument. Applicant's admitted prior art teaches that providing such a Ni film is known in the art [0007]. Consequently, it would have been obvious to one skilled in the art to provide the Ni film in such a known fashion motivated by the desire and expectation of successfully providing a coating that is aesthetically pleasing and resistant to corrosion and abrasion.

iv. This reference does not expressly state that the organic acid is a straight-chain fatty acid. As noted in the prior Office action, the reference is not limited to any one type of acid and it is readily apparent that any acid resulting in the desired acidity [0023-0025] may advantageously be used. WO '549 teaches a composition for protecting the surfaces of water

system components that contains both a straight-chain fatty acid and

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benzotriazole [7:25 - 10:26]. The composition advantageously prevents corrosion of the water system component. Consequently, it would have been obvious to one skilled in the art to utilize, as the organic acid, a straight-chain fatty acid, motivated by the desire and expectation of providing an acid with which to adjust the acidity of the composition and further advantageously impart corrosion resistance to the water system component.

B. Claim 14

- i. This reference does not expressly teach the formation of more than one layer. Nevertheless, it is the Examiner's position that multiple applications of a coating material in order to build up a film of a desired thickness is well known in the art and would have been readily obvious to one skilled in the art. Since the claim does not require that the first and second application of the protected film be compositionally different, the above-described application of multiple layers satisfies this limitation.
- ii. Further, as noted above, since the reference teaches all of the claimed process steps and materials, it is the Examiner's position that the film formed suppresses the elution of Ni due to bimetallic corrosion, absent evidence to the contrary.

C. Claim 15

 i. JP '267 does not expressly recite that the Ni coat has pinholes and that the protective film insulates the underlying Cu alloy and Ni.

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 Applicant's admitted prior art further teaches that Ni plated coatings have pinholes.

iii. Since conventionally formed Ni coatings have pinholes, there is a reasonable expectation that the Ni coating of JP '267 has such pinholes. Further, since the reference teaches all of the *claimed* process steps and materials, it is the Examiner's position that the film formed insulates the

D. Claim 16

- i. As noted above, since the reference teaches all of the claimed process steps and materials, it is the Examiner's position that the film formed suppresses dissolution of the Ni by wetting, absent evidence to the contrary.
- 13. Claims 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2002-180267 A1 in view of Applicant's admitted prior art and WO 96/39549 A1, as applied to claim 12 above, further in view of EP 0 892 084 A1.

underlying Cu alloy and Ni. absent evidence to the contrary.

- A. While JP '267 teaches that the Cu alloy also contains Pb, this reference does not expressly teach the limitations of the claims.
- B. EP '084 teaches contacting a Pb-containing Cu alloy waterworks device with an acidic detergent to prevent the elution of Pb from the device [abstract; 2:1-4 & 37-40 and 9:14-16]. EP '084 teaches the acidic detergent contains HNO₃ and HCI [2:37-47; 5:24-42; and 6:Table 2]. At paragraphs [0007+] of the instant Specification, Applicant's disclose that the mere presence of a Ni coat may result

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in the elution of Ni in water. Consequently, it is the Examiner's position that a Ni salt residue is inherently formed as a result of the Ni plating process and said Ni salt will be removed by the acidic detergent, which is an aqueous solution.

C. It would have been obvious to one skilled in the art to modify the process of JP '267 so as to contact the waterworks appliance with the acidic solution of EP '084 motivated by the desire and expectation of additionally suppressing Pb elution.

Conclusion

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. CA 1,118,990 is cited as representative of the prior art.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to William P. Fletcher III whose telephone number is (571)

272-1419. The examiner can normally be reached on Sunday, 5:00 AM - 12:00 PM and

Monday through Friday, 5:00 AM - 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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/William Phillip Fletcher III/ Primary Examiner, Art Unit 1792

2 December 2010